Atty. Dkt. No. 029849-0207



N THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Vaillant and Juteau

Title:

ANTIVIRAL

OLIGONUCLEOTIDES

TARGETING VIRAL FAMILIES

Appl. No.:

10/661,402

Filing Date:

09/12/2003

Examiner:

Art Unit:

1614

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date below.

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1-23-04

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INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR §1.56

Mail Stop Amendment-IDS Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

The USPTO has waived the requirement under 37 CFR 1.98(a)(2)(i) to submit copies of U.S. patents and U.S. patent application publications when citing and submitting an Information Disclosure Statements in a patent application filed after June 30, 2003 and in an international application that has entered the national stage under 37 USC §371 after June 30, 2003. Accordingly, copies of these types of documents are not being supplied in connection with this application. Reference is being made to OG Notice dated August 5, 2003, Information Disclosure Statements May Be Filed Without Copies of U.S. Patents and Published Applications in Patent Applications filed after June 30, 2003.

Applicants submit herewith on Form PTO/SB/08 a listing of the documents cited by or submitted to the U.S. PTO in related application Serial No. 10/661,403 also filed 09/12/2003. As provided in 37 CFR §1.98(d), copies of the documents are not being provided since they were

previously submitted to the United States Patent & Trademark Office in that application and are on file with the USPTO.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

TIMING OF THE DISCLOSURE

The listed documents are being submitted in compliance with 37 CFR §1.97(b), before the mailing date of the first Office Action on the merits.

RELEVANCE OF EACH DOCUMENT

The relevance of the foreign-language document is explained in the related application.

Applicants respectfully request that any listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 CFR §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 50-0872. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even

entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 50-0872.

Respectfully submitted,

Date November 23, 2004

FOLEY & LARDNER LLP Customer Number: 30542

Facsimile:

Telephone: (415) 438-6454 (415) 434-4507 David P. Lentini

Attorney for Applicant Registration No. 33,944

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	INFORMATION	ON DISCLO	SURE	Application Number	10/661,402	
	STATEMENT	BY APPLI	CANT	Filing Date	09/12/2003	
				First Named Inventor	Andrew Vaillant	
				Group Art Unit	1614	
	(use as many s	heets as ne	cessary)	Examiner Name		
Sheet	1	of	13	Attorney Docket Number	029849-0207	

	U.S. PATENT DOCUMENTS										
		U.S. Patent	Document		Date of Publication of	Pages, Columns, Lines, Where Relevant					
Examiner Initials*	Cite No. ¹	Number	Kind Code ² (if known)	Name of Patentee or Applicant of Cited Document	Cited Document MM-DD-YYYY	Passages or Relevant Figures Appear					

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•	A1	WO	93/24510					

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	A2	AGRAWAL and KANDIMALLA, "Antisense and/or Immunostimulatory Oligonucleotide Therapeutics," Current Cancer Drug Targets 1:197-209 (2001)	
	A3	ALLEN and CHONN, "Large Unilamellar Liposomes with Low Uptake into the Reticuloendothelial System," FEBS Letters 223(1):42-46 (1987)	
	A4	ARCHAMBAULT, et al., "Phosphorothioate oligonucleotides inhibit the replication of lentiviruses and type D retroviruses, but not that of type C retroviruses," Arch Virol 139:97-109 (1994)	

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Sheet	2	of	13	Attorney Docket Number	029849-0207		

1						
Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the article (when ap						
A5	BERKOW, et al., "Nonsteroidal Anti-Inflammatory Drugs (NSAIDs)," The Merck Manual of Diagnosis and Therapy, 15 th ed., 2499-2506 and 46-49 (1987)					
A6	BLUME and CEVC, "Liposomes for the sustained drug release in vivo," <i>Biochimica et Biophysica Acta</i> 1029:91-97 (1990)					
A7	BRUNTON, "Section VI Drugs Affecting Gastrointestinal Function," The Pharmacological Basis of Therapeutics 9(38):934-935 (1996)					
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A9	CAMPBELL and REIN, "In Vitro Assembly Properties of Human Immunodeficiency Virus Type 1 Gag Protein Lacking the p6 Domain," <i>Journ. of Virol.</i> 73:2270-2279 (1999)					
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A12	CONSTANTINIDES, et al., "Formulation and Intestinal Absorption Enhancement Evaluation of Water-in-Oil Microemulsions Incorporating Medium-Chain Glycerides," <i>Pharmaceutical Res.</i> 11:1385-1390 (1994)					
A13	CROOKE, et al., "Pharmacokinetic Properties of Several Novel Oligonucleotide Analogs in mice," Journ. Pharm. and Experim. Therap. 277(2):923-937 (1996)					
A14	CROOKE, S., "Progress in Antisense Technology: The End of the Beginning," <i>Meth. in Enzym.</i> 313:3-45 (1999)					
	A5 A6 A7 A8 A9 A10 A11	 No. 1 Item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published. A5 BERKOW, et al., "Nonsteroidal Anti-Inflammatory Drugs (NSAIDs)," The Merck Manual of Diagnosis and Therapy, 15th ed., 2499-2506 and 46-49 (1987) A6 BLUME and CEVC, "Liposomes for the sustained drug release in vivo," Biochimica et Biophysica Acta 1029:91-97 (1990) A7 BRUNTON, "Section VI Drugs Affecting Gastrointestinal Function," The Pharmacological Basis of Therapeutics 9(38):934-935 (1996) A8 BUUR, et al., "Penetration of 5-Fluorouracil and Prodrugs Across the Intestine of the Albino Rabbit: Evidence for Shift in Absorption Site from the Upper to the Lower Region of the Gastrointestinal Tract by Prodrugs," Journ. of Controlled Release 14:43-51 (1990) A9 CAMPBELL and REIN, "In Vitro Assembly Properties of Human Immunodeficiency Virus Type 1 Gag Protein Lacking the p6 Domain," Journ. of Virol. 73:2270-2279 (1999) A10 CEVC, et al., "Ultraflexible vesicles, Transfersomes, have an extremely low pore penetration resistance and transport therapeutic amounts of insulin across the intact mammalian skin," Biochimica et Biophysica Acta 1368:201-215 (1998) A11 CHENG, et al., "Interactions Between Single-Stranded DNA Binding Protein and Oligonucleotide Analogs with Different Backbone Chemistries," Journ. Mol. Recognition 10:101-107 (1997) A12 CONSTANTINIDES, et al., "Formulation and Intestinal Absorption Enhancement Evaluation of Water-in-Oil Microemulsions Incorporating Medium-Chain Glycerides," Pharmaceutical Res. 11:1385-1390 (1994) A13 CROOKE, et al., "Pharmacokinetic Properties of Several Novel Oligonucleotide Analogs in mice," Journ. Pharm. and Experim. Therap. 277(2):923-937 (1996) A14 CROOKE, S., "Progress in Antisense Technology: The End of the Beginning," Meth. in Enzym. 313:3-45 				

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	INFORMATION DI	SCLO	SURE	Application Number	10/661,402		
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				Group Art Unit	1614		
	(use as many sheets	as ned	cessary)	Examiner Name			
Sheet	3	of	13	Attorney Docket Number	029849-0207		

		NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No. ¹							
	A15	Du PLESSIS, et al., "Topical Delivery of Liposomally Encapsulated Gamma-Interferon," Antivir. Res. 18:259-265 (1992)						
	A16	EL-HARIRI, et al., "The Mitigating Effects of Phosphatidylcholines on Bile Salt- and Lysophosphatidylcholine-induced Membrane Damage," J. Pharm. Pharmacol. 44:651-654 (1992)						
	A17	ENGLISCH and GAUSS, "Chemically Modified Oligonucleotides as Probes and Inhibitors," Angewandte Chemie 30(6):613-722 (1991)						
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		NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	No.1 No.1 No.1 No.1 No.1 No.1 No.1 No.1				
	A23	HIGUCHI, et al., "Particle Phenomena and Course Dispersions," Remington's Pharmaceutical Sciences 21:301-329 (1985)			
	A24	HO, et al., "Preparation of Microemulsions Using Plyglycerol Fatty Acid Esters as Surfactant for the Delivery of Protein Drugs," <i>Journ. of Pharm. Sci.</i> 85:138-143 (1996)			
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		NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	No. 1							
	A31	KANDIMALLA, et al., "Effects of Phosphorothioate Oligodeoxyribonucleotide and Oligoribonucleotides on Human Complement and Coagulation," Bioorg. & Med. Chem. Lett. 8:2103-2108 (1998)						
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	A40	LETSINGER, et al., "Cholesteryl-conjugated oligonucleotides: Synthesis, properties, and activity as inhibitors of replication of human immunodeficiency virus in cell culture," Proc. Natl. Acad. Sci. USA 86:6553-6556 (1989)				
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	A43	MANOHARAN, et al., "Cholic Acid-Oligonucleotide Conjugates for Antisense Applications," Bioorg. & Med. Chem. Lett. 4:1053-1060 (1994)				
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	A54	MORRIS, et al., "High Affinity Ligands from in vitro Selection: Complex Targets," Proc. Natl. Acad. Sci. USA 95:2902-2907 (1998)					

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Sheet	8	of	13	Attorney Docket Number	029849-0207		

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	INFORMATION	I DISCLO	SURE	Application Number	10/661,402		
	STATEMENT E	3Y APPLI	CANT	Filing Date	09/12/2003		
				First Named Inventor	Andrew Vaillant		
				Group Art Unit	1614		
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Sheet	9	of	13	Attorney Docket Number	r 029849-0207		

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